

seminars

ESO ASTROPHYSICS SEMINAR

Friday, February 27
15.00
DD Conference Room
(Bldg. 31 - 3rd floor)

"Problems of Star Formation"
by B. Kandel / Observatoire de Paris

Abstract : Theoretical models of the process of star formation have made some progress in taking into account such elementary complications as rotation. This raises hopes of understanding some aspects of the morphology of regions in which star formation is believed to occur.

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PS SEMINAR

Friday, February 27
11.00
PS Large Conference Room
(Bldg. 6 - 2.004)

"The Improved Synchrocyclotron (SC2) "
by E.G. Michaelis, H. Beger and A. Fiebig

Abstract :

Abstract : 1. The SC 2 : Goals of the Improvement Programme, Status reached at present / E.G. Michaelis.

2. The Main SC 2 r.f. System / H. Beger.

3. The SC 2 r.f. Beam Stretching System / A. Fiebig

4. Project to accelerate ^3He in the SC 2 / H. Beger

It is planned to have a second seminar devoted to SC problems in March.

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EP SEMINARS

Monday, February 23
11.00
Large Conference Room
(Lab.13 - 2.005)

"Experimental program with the European muon spectrometer at the SPS"

by J.J. Aubert / Annecy

Abstract : How the spectrometer is being constructed and what is the physics aim which can be achieved with the high intensity muon beam of the SPS.

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Monday, March 1
11.00
Council Chamber

"Unconventional Use of the SPS and Fermilab (FNAL) Rings. Just one of those Unthinkable Ideas" /
by Carlo Rubbia

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CERN NUCLEAR PHYSICS SEMINARS

Monday, February 23
11.00
Theory Conference Room

"Fragmentation reactions with relativistic heavy ions"

by J. Hüfner / University of Heidelberg

Abstract : The data from Berkeley about fragmentation reactions like $^{16}\text{O} + ^9\text{Be} \rightarrow AZ + X$ at 2 GeV/nucleon have stirred quite some interest. We present calculations within a two-step model which reproduce (without free parameter) total cross sections and momentum distributions.

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Monday, March 1
11.00
Theory Conference Room

"Total Photonuclear Cross Sections and Sum Rules"

by B. Ziegler / Otto-Hahn-Institut, Mainz

Abstract : Total photonuclear cross sections have been measured for low atomic number elements between 10 MeV and 200 MeV photon energy. The lowest order moments of the experimental cross section distributions are compared with sum rule predictions. Values for the exchange part of nuclear forces, for RMS radii and momenta and for the static nuclear polarizability are deduced.

SPS EXPERIMENTS
COMMITTEE

Agenda for the Thirty-second Meeting

Tuesday and Wednesday
March 2 and 3, 1976

OPEN SESSION on Tuesday, March 2 at 9.00, Auditorium

1. Proposal to Study pp-Interactions in BEBC below 100 GeV/c.
(Pavia-Torino Collaboration; G. Rinaudo; SPSC/76-18/P28/Add.1)
2. Proposal to Study K^-p -Interactions in BEBC at 70 GeV/c
(Glasgow-Paris-RHEL-Saclay Collaboration; R. Barloutaud;
SPSC/75-2/P38).
3. A Proposal to Expose BEBC to the K^- Beam with the Highest
Available Momentum (i.e. ~ 110 GeV/c). (Aachen-Berlin-
CERN-Cracow-Imperial College-Vienna-Warsaw Collaboration;
P.J. Dornan; SPSC/75-86/P57).
4. A Proposal to Study High Energy $K_L^0 p$ -Interactions in BEBC.
(Cambridge-Imperial College Collaboration; T.C. Bacon;
SPSC/76-11/P60).
5. Study of 70 GeV/c K^+p -Interactions in BEBC with an EPI.
(Brussels-CERN-Genova-Mons-Nijmegen-Serpukhov-Tel Aviv
Collaboration; R.T. van de Walle; SPSC/76-15/P62).
6. Study of $\bar{p}p$ -Interactions at 70 GeV/c in BEBC (Brussels-
Helsinki-Liverpool-Mons-Stockholm Collaboration; N. Yamdagni;
SPSC/76-16/P63).
7. Experiment to Investigate Direct Lepton Production in
 π^-p -Interactions using BEBC Equipped with a Large TST.
(Glasgow-RHEL-Saclay-Torino Collaboration, G. Kalmus;
SPSC/76-19/P64).
8. Prompt Lepton Production in $\bar{p}p$ -Interactions at High Energies
in BEBC Equipped with the a TST (Brussels-Liverpool-Mons-
Stockholm Collaboration; J. Lemonne; SPSC/76-20/P65).

LUNCH BREAK

9. Beam Dump Experiment in Omega (Birmingham-CERN-Neuchâtel-
RHEL Collaboration; contact man: P. Sonderegger;
speaker: D. Perrin; SPSC/76-14/P61).
10. Addendum to SPS Experiment WA4: A Charm Search Using the
Tagged Photon Beam at the CERN-SPS Omega Facility (Bonn-
CERN-Daresbury-DESY-Ecole Polytechnique-Glasgow-Lancaster-
Manchester-Orsay-Sheffield Collaboration; spokesman: J. Litt;
speaker: F. Richard; SPSC/76-17/P10/Add.1).

CLOSED SESSION on Wednesday, March 3 at 9.00, Conference
Room, 6th floor, Administration Building.

14.30 p.m. A visit of the SPS and the West Area will be organized
for SPSC members.

CERN COLLOQUIA

Tuesday, February 24
16.30
Auditorium

"Relativistic Cosmology and Bianchi Universes"

by R. Ruffini / Princeton University

Abstract : Three steps have been essential in our current understanding of relativistic cosmology :

- (1) The idea by Riemann that the metric relations of space are not given a priori but follow from direct experimental observations.
- (2) The cosmological models of Friedmann and the observations by Hubble of the expansion of the Universe.
- (3) The discovery of the cosmological background radiation.

These three steps are reviewed and shown to be inconsistent with the basic requirement of non violation of causality in the early Universe. The possible outcomes from this paradox and the role of the Bianchi universes are discussed with major emphasis on new experimental observations to be performed. Recent results on pair creation and anisotropy damping in early cosmology are presented.

Wednesday, February 25
16.30
Auditorium

"Gauge theories of weak and strong interactions"

(for experimentalists and theoreticians)

by A. Salam / Imperial College and I.C.T.P. Trieste

CERN TRACK CHAMBER COMMITTEE

Monday, March 1
14.00
Council Chamber

Report on Bubble Chamber Operations :

- restart of HBC 200
- technical run of BEBC (P. Reinhard).

Status Report on the Rapid Cycling Bubble Chamber Project (L. Montanet).

Discussion on New Proposals for the HBC/DBC 200 :

- proposal to study $\bar{p}d$ interactions at 12 GeV/c (CERN/TCC 75-27 and TCC 76-2) Strasbourg/Helsinki-Stockholm;
- proposal to study dd interactions at 14 GeV/c (CERN/TCC 75-28/Add.1) Strasbourg

Results of the $\bar{p}p$ Formation Experiment in the 1930 MeV Mass Region (CERN/TCC 74.33, T239).

Status Report on the Aachen-Padua NUE-Spark Chamber Experiment (CERN/TCC 73-24 - 73-24a, T230) (H. Faissner - M. Baldo-Ceolin).

CERN COMPUTER SEMINAR

Friday, March 5
14.15
Council Chamber

"New Methods for Image Processing Using LSI Arrays"

by Dr. M.J.B. Duff / University College London

enseignement

ENSEIGNEMENT GENERAL

Jeudi 26 février
13.00 - 13.30
Amphithéâtre

Science pour Tous, par R. Carreras

Programme (pour détails, voir affiches) :

1. Vu, lu et entendu.
2. Question : Il y a une quinzaine d'années, on avait cru qu'un des satellites de Mars, Phobos, était légèrement freiné sur son orbite. Un célèbre astronome en avait déduit qu'il était artificiel. Par quelle suite de raisonnements simples avait-il bien pu arriver à une telle conclusion ?
3. Thème principal : "Séparateurs magnétiques à gradient élevé".